

ABSTRACT

The nucleic acid and amino acid sequences of α_1 , α_2 , β and ε subunits of acetyl-CoA carboxylase (ACCase) from *Streptomyces coelicolor* are provided. This subunit structure differs from that of known acyl carboxylases. Materials and methods are provided of increasing ACCase activity and production of secondary metabolites (such as polyketides and especially antibiotics) by causing expression in *Streptomyces* of such nucleic acid.

Also provided are methods of increasing ACCase activity and production of secondary metabolites (such as polyketides and especially antibiotics) by culturing *Streptomyces* in the presence of exogenous malonate.